

**Listing of the Claims:**

The following is a complete listing of all the claims in the application, with an indication of the status of each:

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- 1 1 (Currently Amended). A system for verifying authenticity of a  
2 manufactured product, comprising:  
3 an electronic tag attached to one of said product and product  
4 packaging, said electronic tag comprising a memory for storing  
5 authentication information for said product ~~in encrypted form~~; and  
6 a reader ~~equipped with a decryption key~~ for reading said  
7 authentication information from said electronic tag to verify that said  
8 product is authentic based solely on the information contained in said  
9 memory without revealing said authentication information.
- 1 2 (Original). A system for verifying the authenticity of a manufactured  
2 product as recited in claim 1 wherein said electronic tag is a smart card.
- 1 3 (Original). A system for verifying, the authenticity of a manufactured  
2 product as recited in claim 1 wherein said electronic tag is embedded into  
3 one of said product and product packaging product.
- 1 4 (Original). A system for verifying the authenticity of a manufactured  
2 product as recited in claim 1 wherein said authentication information is  
3 encrypted using a private key and said reader decrypts said information  
4 using a corresponding public key.
- 1 5 (Original). A system for verifying the authenticity of a manufactured  
2 product as recited in claim 1 further comprising a point of sale machine  
3 containing, said reader for authenticating said product in front of a  
4 consumer prior to purchase of the product.

1 6 (Original). A system for verifying the authenticity of a manufactured  
2 product as recited in claim 1 wherein said reader comprises means for  
3 reading said electronic tag without physically contacting said electronic  
4 tag.

1 7 (Original). A system for verifying the authenticity of a manufactured  
2 product as recited in claim 1 wherein a zero-knowledge protocol is used to  
3 make said authentication information resistant to duplication.

1 8 (Original). A system for verifying the authenticity of a manufactured  
2 product as recited in claim 1 wherein said authentication information is  
3 directed to a manufacturer of the product.

1 9 (Original). A system for verifying the authenticity of a manufactured  
2 product as recited in claim 1 wherein said authentication information is  
3 specific to the product.

1 10 (Original). A system for verifying the authenticity of a manufactured  
2 product as recited in claim 1 further comprising a label having the  
3 authentication information printed thereon to be verified against the  
4 authentication information read by said reader.

1 11 (Currently Amended). A system for verifying the authenticity of a  
2 manufactured product as recited in claim 9 wherein said authentication  
3 information comprises one or more of product color, product shape,  
4 product serial number, product weight, product routing; information, and  
5 product chemical composition.

1 12 (Original). A system for verifying the authenticity of a manufactured

2 product as recited in claim 9 wherein said authentication information  
3 comprises a graphic image of the product.

1 13 (Original). A system for verifying the authenticity of a manufactured  
2 product as recited in claim 9 wherein said authentication information  
3 comprises an ownership history of the product.

1 14 (Canceled). A system for verifying the authenticity of a manufactured  
2 product as recited in claim 1 wherein said authentication information is  
3 erased from said memory after being read.

20 1 <sup>14</sup>  
~~15~~ (Original). A system for verifying the authenticity of a manufactured  
2 product as recited in claim 1 wherein said authentication information  
3 further comprises information for authenticating said electronic tag.

1 <sup>15</sup>  
~~16~~ (Currently Amended). A method for verifying the authenticity of a  
2 manufactured product, comprising the steps of:  
3 generating authentication information for a manufactured product;  
4 ~~encrypting said authentication information using a private key;~~  
5 storing said ~~encrypted information~~ authentication information in  
6 an electronic tag;  
7 attaching said electronic tag to one of said manufactured product  
8 and manufactured product packaging;  
9 reading said ~~encrypted~~ authentication information from said  
10 electronic tag; and  
11 ~~decrypting said encrypted information using a public key~~  
12 ~~corresponding to said private key to verify~~ verifying that said  
13 manufactured product is authentic based solely on the information in said  
14 electronic tag without revealing said authentication information.

1 17 (Original). A method for verifying the authenticity of a manufactured  
2 product as recited in claim 16 further comprising the step of using a zero-  
3 knowledge protocol to make said authentication information resistant to  
4 duplication.

1 18 (Original). A method for verifying the authenticity of a manufactured  
2 product as recited in claim 16 further comprising the step of attaching a  
3 printed label to said product comprising said authentication information.

1 19 (Original). A method for verifying the authenticity of a manufactured  
2 product as recited in claim 16 further comprising the step of erasing said  
3 authentication information from said electronic tag after reading.

1 20 (Original). A method for verifying the authenticity of a manufactured  
2 product as recited in claim 16 further comprising the step of recording an  
3 ownership history of said product in said electronic tag.

1 21 (Currently Amended). A method for detecting manufactured products in  
2 a parallel market, comprising the steps of:

3 generating authentication information for a manufactured product  
4 including routing information for the product;  
5 ~~encrypting said authentication information using a private key;~~  
6 storing said ~~encrypted~~ authentication information in an electronic  
7 tag;

8 attaching said electronic tag to one of the manufactured product  
9 and manufactured product packaging;

10 reading said ~~encrypted~~ authentication information from said  
11 electronic tag at a point of sale; and

12 ~~decrypting said encrypted information using a public key~~  
13 ~~corresponding to said private key to verify~~ verifying said routing

14 information matches routing information of said point of sale to determine  
15 if said manufactured product is sold in a parallel market based solely on  
16 the information contained in said electronic tag.

1 <sup>16</sup>~~22~~ (New). A method for verifying the authenticity of a manufactured  
2 product as recited in claim ~~16~~<sup>15</sup>, further comprising the steps of:  
3       encrypting said authentication information using a private key prior  
4 to storing the authentication information in said electronic tag; and  
5       decrypting the encrypted authentication information read from said  
6 electronic tag prior to verifying that said manufactured product is authentic.

1 <sup>22</sup>~~23~~ (New). A method for detecting manufactured products in a parallel  
2 market as recited in claim 21, further comprising the steps of:  
3       encrypting said authentication information using a private key prior  
4 to storing the authentication information in said electronic tag; and  
5       decrypting the encrypted authentication information read from said  
6 electronic tag prior to verifying that said routing information matches  
7 routing information of said point of sale.

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